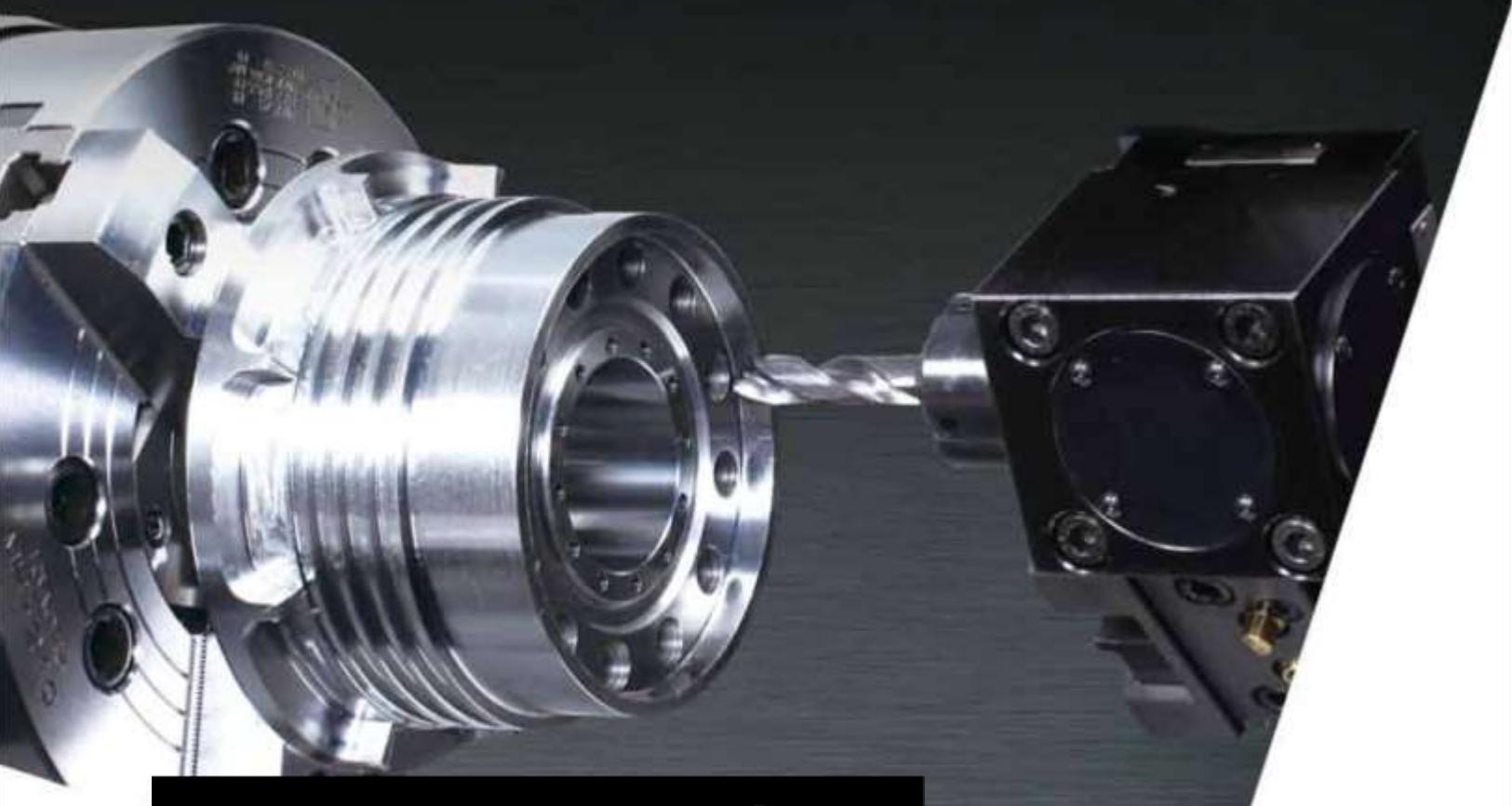




Optimal Solutions for the Future

PUMA GT series



**8, 10 Inch
Global Standard
Turning Center**

PUMA GT series
PUMA GT2100
PUMA GT2600

ver. EN 150923 SU

Basic information

Basic Structure
Cutting
Performance

Machine
Information

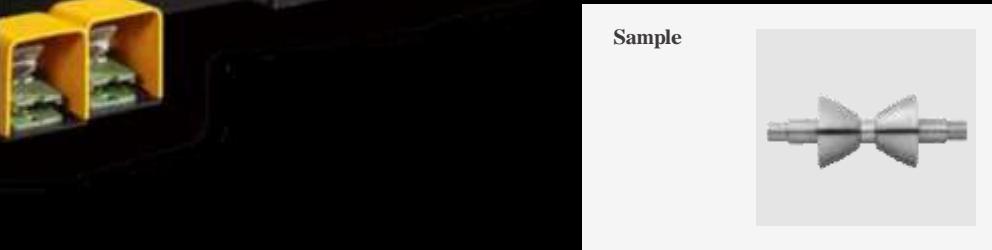
Standard/Optional
Specifications
Applications
Diagrams
Machine & NC Unit
Specifications

Customer Support



PUMA GT Series

PUMA GT Series is an 8/10-inch grade turning center suggesting new global standards. The series is equipped with the most powerful spindle in its class and the tool post of the next-generation concept to guarantee powerful and precise cutting capability and exceptional productivity. The design of PUMA GT Series focuses on convenient operation and easy maintenance.



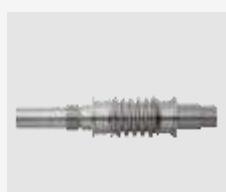
Powerful/Precise Cutting Capability

PUMA GT Series realizes stable and powerful cutting capabilities by adopting the box guideway structure and the highest spindle power in its class.

Excellent Productivity

Comparing to the previous models, faster rapid traverse and optimal control function ensure the highest productivity.

Sample



Improved Usability

Usability of PUMA GT Series is maximized with user-friendly operation panel, and simple maintenance functions.

Contents

02 Product Preview

Basic information

- 04 Basic Structure
07 Cutting Performance

Machine Information

- 08 Standard/Optional Specifications
10 Applications
12 Diagrams
18 Machine & NC Unit Specifications

22 Customer Support

Basic information

Basic Structure
Cutting
Performance

Machine Information

Standard/Optional Specifications
Applications
Diagrams
Machine & NC Unit Specifications

Customer Support



Basic Structure

Box guideways are applied to all axes to prevent vibration, secure dynamic rigidity, and ensure powerful and precise machining.

Diverse Line-up Fully Satisfying Demands of Customers

PUMA GT Series provides 10 line-ups, of which configuration varies depending on the standard chuck size, the length of machine, and operation of rotating tools.



Model group	Standard chuck size (inch)	Length of bed (mm(inch))			Function
		/300	std.	L	
PUMA GT2100	8	300 (11.8)	550 (21.7)	-	2 axis/M
PUMA GT2100B	10	-	550 (21.7)	-	2 axis/M
PUMA GT2600	10	-	650 (25.6)	1050 (41.3)	2 axis/M

Model group	Travel (mm(inch))		Rapid traverse rate (m/min(ipm))	
	X-Axis	Z-Axis	X-Axis	Z-Axis
PUMA GT2100/300	230 (9.1)	330 (13.0)	24 (945)	30 (1181)
PUMA GT2100		580 (22.8)		
PUMA GT2100B				
PUMA GT2600		680 (26.8)		
PUMA GT2600L		1100 (43.3)		



Machining Area

PUMA GT Series forms the largest machining area in its class to yield the maximum productivity with the minimum costs.

Max. Φ460 mm
(18.1 inch)

Max. 1078 mm
(42.4 inch)

Model group (unit : mm(inch))	Max. turning dia. (2axis/M)	Bar working dia.	Max. turning length (2axis/M)
PUMA GT2100/300	390 / 300 (15.4 / 11.8)	65 (2.6)	312 / 263 (12.3 / 10.4)
PUMA GT2100			562 / 513 (22.1 / 20.2)
PUMA GT2100B			550 / 501 (21.7 / 19.7)
PUMA GT2600	460 / 410 (18.1 / 16.1)	81 (3.2)	658 / 610 (25.9 / 24.0)
PUMA GT2600L			1078 / 1030 (42.4 / 40.6)



Spindle

Design of low-inertia spindle saves acceleration/deceleration time while improving productivity, and realizes powerful cutting with the motor of highest power in its

Max. spindle speed

3500 r/min

Max. spindle power

**22 kW
(30 hp)**
(30 min. rating)

Max. spindle torque

**622 N·m
(459 lbf ft)**

*PUMA GT2600 specification

Model group	Spindle speed (r/min)	Power (kW(hp))	Torque (N·m(lbf ft))	Condition
PUMA GT2100	4500	18.5 / 15 (25 / 20)	313 / 190 (230 / 140)	15 min / cont.
PUMA GT2100B	3500	18.5 / 15 (25 / 20)	401 / 244 (296 / 180)	15 min / cont.
PUMA GT2600	3500	22 / 18.5 (30 / 20)	622 / 523 (459 / 386)	30 min / cont.



Tailstock

High-rigidity tailstock is mounted to stably support thin and long workpiece.

Model group (mm(inch))	Tailstock travel	Quill dia	Quill travel
PUMA GT2100/B	580 (22.8)	80 (3.1)	80 (3.1)
PUMA GT2600	680 (26.8)	100 (3.9)	100 (3.9)
PUMA GT2600L	1100 (43.3)	100 (3.9)	100 (3.9)

* Tailstock is not compatible with PUMA GT100/300 model.



Turret

Rotation of the turret is controlled by the servo motor for prompt and correct selection of tools.

Turret

The servo motor controls rotation of the turret for the purpose of guaranteeing rapid rotation and correct position. The milling turret including rotary tools features a BMT type of design for higher rigidity. In addition, the minimization of thermal error due to oil and air lubrication of the rotary tools delivers the best milling, drilling and tapping performance in its class.

2 axis turret

PUMA GT2100

- **Number of tool stations : 12 st**

PUMA GT2100B

PUMA GT2600

- **Number of tool stations :**
- 10 st / 12 st** option

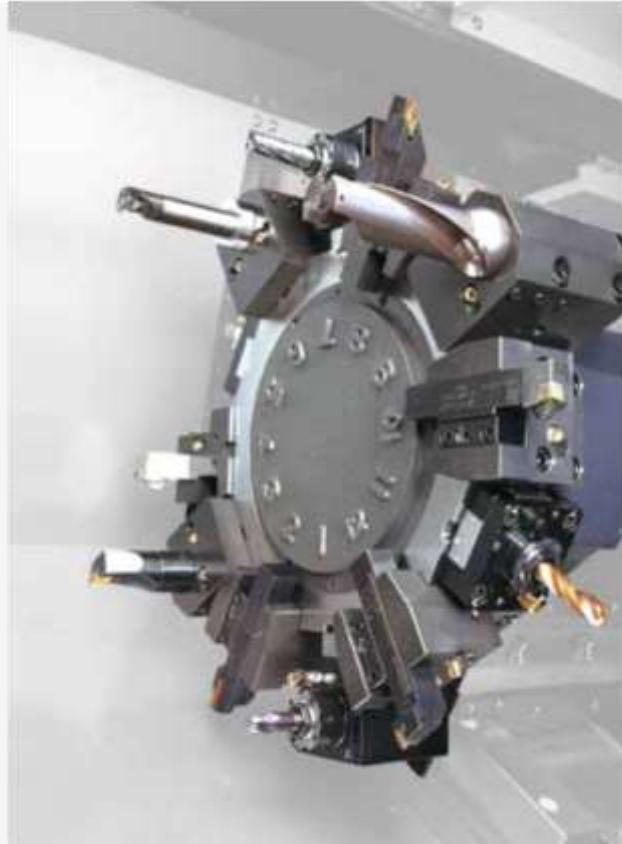


BMT milling turret

PUMA GT2100M

PUMA GT2600M

- **BMT 55P**
- **Number of tool stations : 12 st**



Cutting Performance

Multi-functionality including end milling, face milling, drilling, tapping, etc. offers better machining performance while minimizing work setting.

OD turning

	unit	PUMA GT2100	PUMA GT2600
Chip removal rate	cm ³ /min (inch ³ /min)	551 (33.6)	693 (42.3)
Cutting speed	m/min (ipm)	210 (8278)	210 (8278)
Feedrate	mm/rev (ipr)	0.55 (0.02)	0.55 (0.02)
Spindle speed	r/min	965	338
Cutting depth	mm (inch)	4.5 (0.18)	6 (0.24)

ID turning (Rough cutting)

	unit	PUMA GT2100	PUMA GT2600
Cutting speed	m/min (ipm)	270 (10630)	270 (10630)
Feedrate	mm/rev (ipr)	0.3 (0.01)	0.3 (0.01)
Spindle speed	r/min	1131	1131
Cutting depth	mm (inch)	3 (0.1)	3 (0.1)
Tool length	length / dia.	3.5D	3.5D

U drilling (2axis)

	unit	PUMA GT2100	PUMA GT2600
Chip removal rate	cm ³ /min (inch ³ /min)	567 (34.6)	914 (55.8)
Cutting speed	m/min (ipm)	200 (7874)	200 (7874)
Feedrate	mm/rev (ipr)	0.18 (0.007)	0.29 (0.011)
Spindle speed	r/min	1011	1011
U drill dia.	mm (inch)	63 (2.5)	63 (2.5)

Face milling

	unit	PUMA GT2100	PUMA GT2600
Chip removal rate	cm ³ /min (inch ³ /min)		47.9 (2.9)
Cutting speed	m/min (ipm)		120 (4724)
Feedrate	m/min (ipm)		190 (7481)
Spindle speed	r/min		606
Cutting depth	mm (inch)		4 (0.16)
Face mill dia.	mm (inch)		63 (2.5)

End milling

	unit	PUMA GT2100	PUMA GT2600
Chip removal rate	cm ³ /min (inch ³ /min)		90 (5.5)
Cutting speed	m/min (ipm)		60 (2362)
Feedrate	m/min (ipm)		250 (9843)
Spindle speed	r/min		1060
Cutting depth	mm (inch)		20 (0.7)
End mill dia.	mm (inch)		18 (0.7)

Tapping

	unit	PUMA GT2100	PUMA GT2600
Tap size			M20 x P2.5
Cutting speed	m/min (ipm)		15 (591)
Feedrate	m/min (ipm)		2.5 (98.4)
Spindle speed	r/min		240

* The results, indicated in this catalogue are provided as example. They may not be obtained due to differences in cutting conditions and environmental conditions during measurement.



Standard / Optional Specifications

Basic information

Basic Structure
Cutting
Performance

Machine Information

Standard/Optional Specifications
Applications
Diagrams
Machine & NC Unit Specifications

Customer Support

Diverse optional devices and features are available to meet specific customer requirements.

NO.	Description	Features	PUMA GT2100/300	PUMA GT2100	PUMA GT2100B
1	Chuck	8 inch	●	●	X
2		10 inch	○	○	●
3		12 inch	✗	✗	✗
4		No chuck	○	○	○
5	Jaw	Soft Jaw	●	●	●
6		Hard Jaw	○	○	○
7	Chucking Option	DUAL PRESSURE CHUCKING	○	○	○
8		CHUCK CLAMP CONFIRMATION	○	○	○
9	Steady rest	Hydraulic (Φ11 ~ Φ200)	X	△	△
10		Programmable (Φ11 ~ Φ200)	X	△	△
11	V stand	V stand for shaft workpiece	○	○	○
12	Tailstock	Manual	X	●	●
13		Programmable	X	○	○
14		Live center	X	●	●
15		Built-in dead center	X	○	○
16	Coolant Pump	1.5 bar	●	●	●
17		Increase Power (4.5/7/10/14.5/70 bar)	○	○	○
18	Coolant options	Oil skimmer	○	○	○
19		Coolant chiller	○	○	○
20		Coolant pressure switch	○	○	○
21		Coolant level switch	○	○	○
22		Chuck coolant	○	○	○
23		Coolant gun	○	○	○
24	Chip disposal options	Side type chip conveyor	○	○	○
25		Rear type chip conveyor	○	○	○
26		Chip bucket	○	○	○
27		Air blower	○	○	○
28		Mist collector interface	○	○	○
29		Integrated mist collector	○	○	○
30	Measuring & automation	Tool setter (manual/automatic)	○	○	○
31		Part catcher with parts box	○	○	○
32		Part catcher with parts conveyor	○	○	○
33		Auto door	○	○	○
34		Bar feeder interface	○	○	○
35	Others	Tool load monitoring system	○	○	○
36		Linear scale	○	○	○
37		Signal tower	○	○	○
38		Air gun	○	○	○
39		Automatic power off	○	○	○

≈ Standard ≈ Optional △ Contact DOOSAN X N/A

Peripheral equipments

Basic information

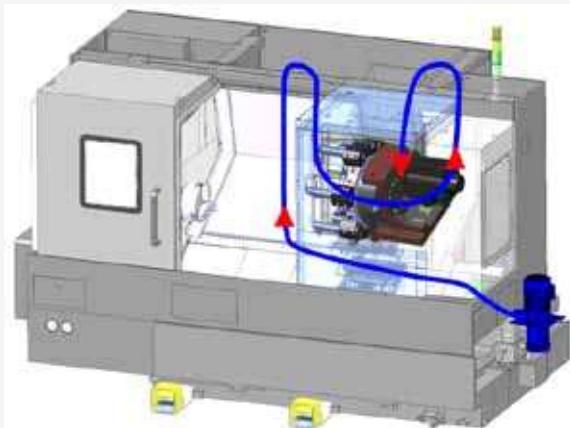
Basic Structure
Cutting
Performance

Machine Information

Standard/Optional Specifications
Applications
Diagrams
Machine & NC Unit Specifications

Customer Support

Coolant system



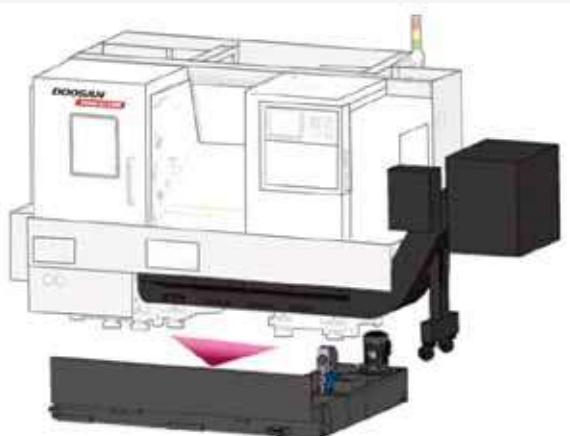
Coolant pump	Output pressure (bar)		filter	std./opt.
	60 Hz	50 Hz		
Pump1	1,5	1	screen filter	std.
Pump2	4,5	3		
Pump3	7	5		
Pump4	10	7		
Pump5	14,5	10		
Pump6	28	19,5		
Pump7	70	-		dual bag filter
Pump8	70	-		paper filter

Chip conveyor option



Chip conveyor type	Material	Description
Hinged belt	Steel	Most typical type of chip conveyor. Appropriate for steel materials generating chips of length of 30 mm or more.
Screw	Steel	Chip conveyor with smallest footprint. Demands 80% of footprint comparing to hinged belt.
Magnetic scrapper	Cast iron	Chip conveyor with magnet equipped: Appropriate for cast iron workpieces generating fine chips.

Easy-to-clean coolant tank



The coolant tank can be dismantled without disassembling the chip conveyor. Operating convenience is significantly enhanced.

Oil skimmer option



The oil skimmer keeps coolant and lubricant isolated from each other for extending lifecycle of coolant.

option



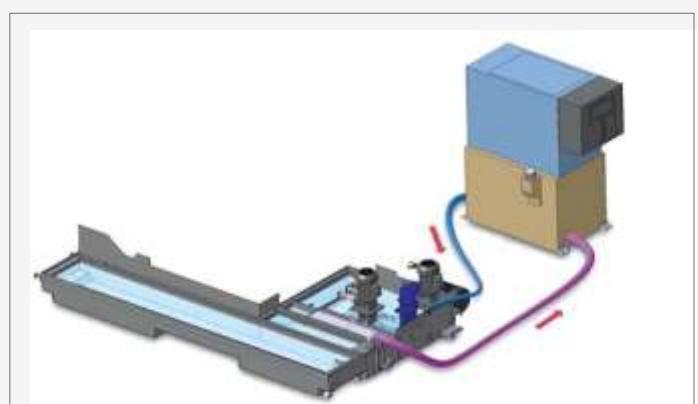
abraded tool.

option



out of the system.

Coolant chiller option



Detachable coolant chiller is recommended to keep thermal error minimal and get higher machining precision.

Mist collector option



The mist collector absorbs airborne oil vapor and fine dusts in the system to improve working environment.

option



The collet chuck is ideal for loading workpiece of small diameter and light weight.

Torque : N·m (lbf ft)

Power : kW (hp)

Spindle Power – Torque Diagram

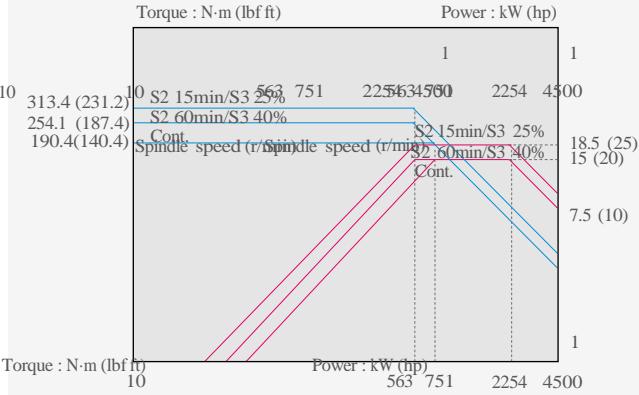
Basic information
 313.4 (231.2)
 254.1 (187.4)
 190.4 (140.4)

S2 15min/S3 25%
 S2 60min/S3 40%
 Cont. S2 15min/S3 25% 18.5 (25) 18.5 (25)

Cutting Performance

Spindle(FANUC) Cont. 9 (12) 7.5 (10) 7.5 (10)

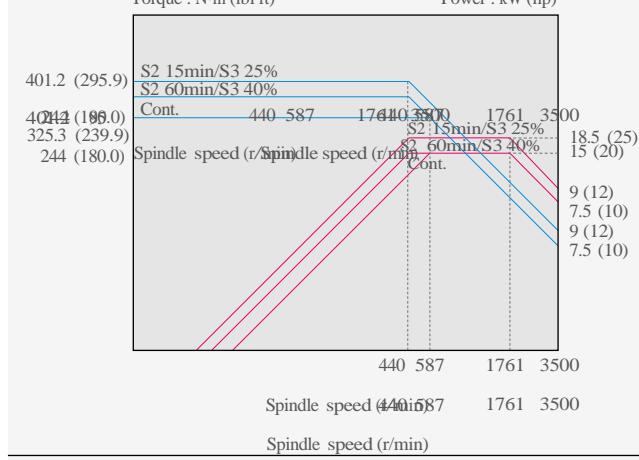
- PUMA GT2100
- PUMA GT2100M/300
- PUMA GT2100OM



401.2 (295.9) S2 15min/S3 25%
 244 (180.0) S2 60min/S3 40%

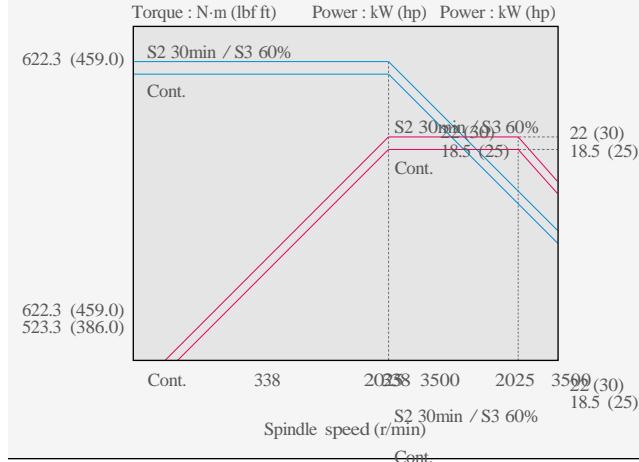
Cont. Cont.
 Spindle(FANUC) S2 15min/S3 25% S2 15min/S3 25%
 S2 60min/S3 40% S2 60min/S3 40%

- PUMA GT2100B
- PUMA GT2100MB



法兰 (FANUC)

- PUMA GT2600
- PUMA GT2600L
- PUMA GT2600M
- PUMA GT2600LM



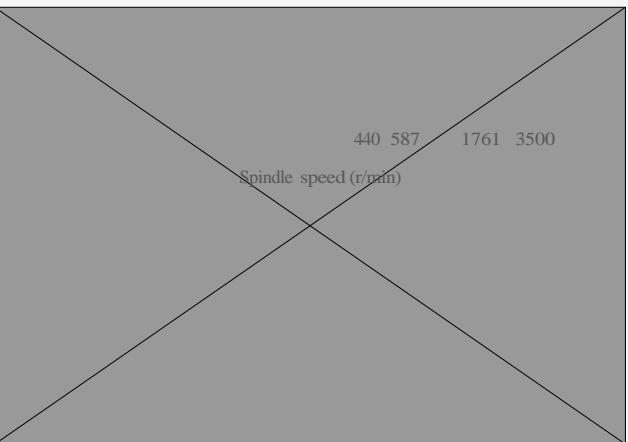
S2 15min/S3 25%
 S2 60min/S3 40%
 Cont.

Spindle (DOOSAN CNC D300)

S2 15min/S3 25%
 S2 60min/S3 40%
 Cont.

- PUMA GT2100

9 (12)
 7.5 (10)



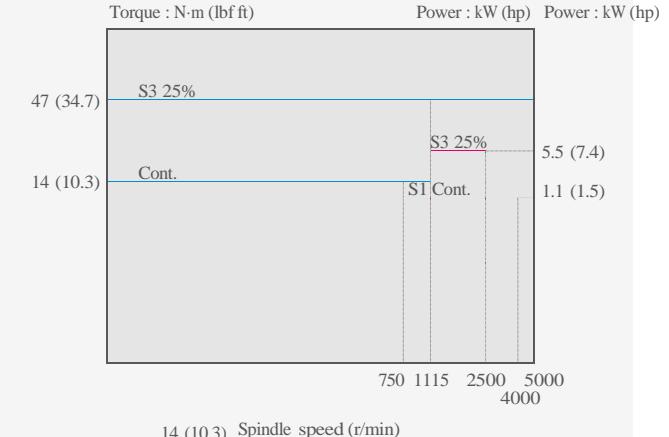
Spindle (DOOSAN CNC D300)

- PUMA GT2600
- PUMA GT2600L



Rotary tool

- PUMA GT2100M/300
- PUMA GT2100MB
- PUMA GT2100M
- PUMA GT2600M
- PUMA GT2600LM



External Dimensions

PUMA GT series

Unit: mm (inch)

Top View

A

A

Front View

D

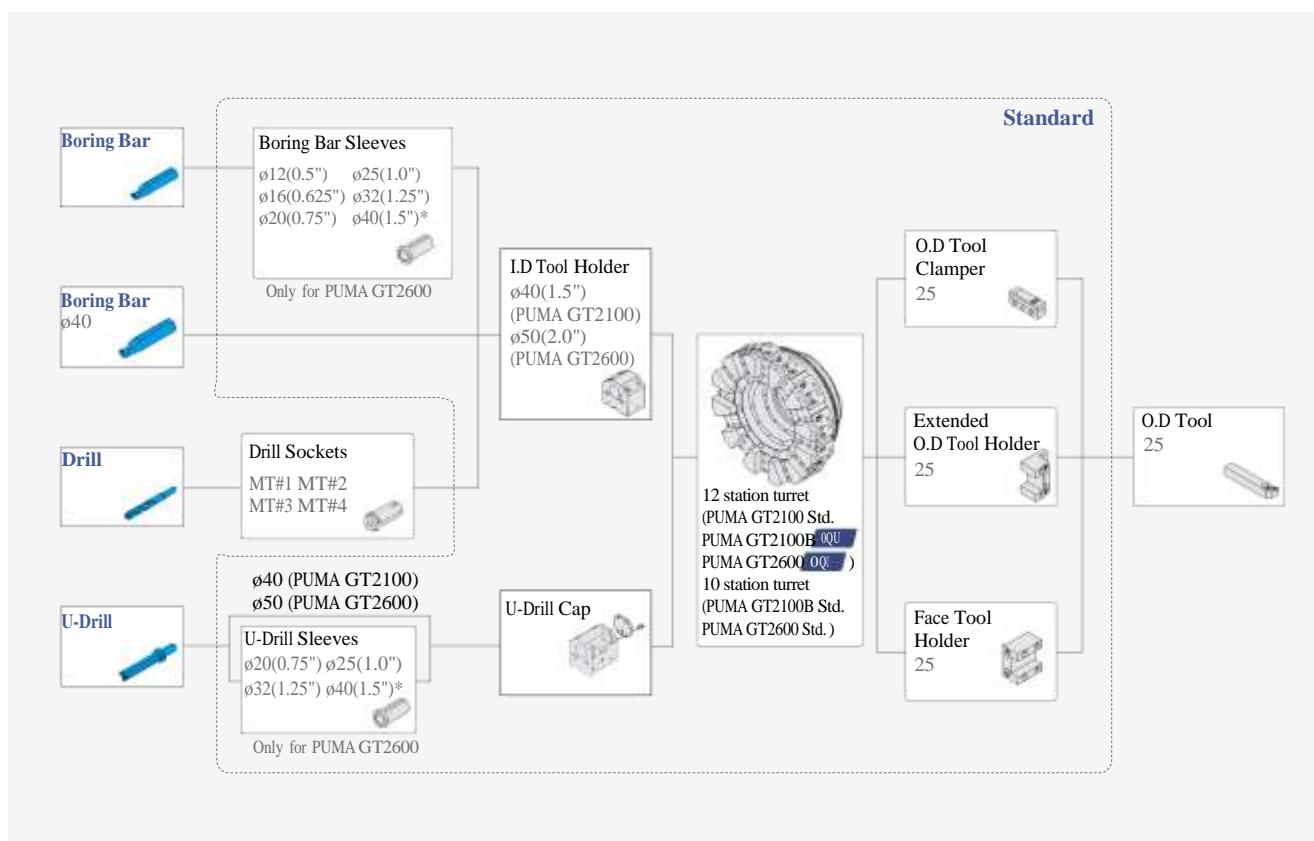
Description		PUMA GT2100/300	PUMA GT2100	PUMA GT2100B	PUMA GT2600	PUMA GT2600L
A (Length)		2285(90.0)*	2940(115.7)	2985(117.5)	3290(129.5)	3735(147.0)
B (Width)		2448(96.4)*	1628(64.1)	1628(64.1)	1630(64.2)	1630(64.2)
C (Height)		1700(66.9)	1700(66.9)	1700(66.9)	1720(67.7)	1720(67.7)
D (Length with side type chip conveyor)	Hinged belt	3570(140.6)	3895(153.3)	3940(155.1)	4275(168.3)	4965(195.5)
	Screw	3153(124.1)	3478(136.9)	3523(138.7)	3847.5(151.5)	4542(178.8)
E (Width with rear type chip conveyor)	Hinged belt	2515(99.0)	2588(101.9)	2588(101.9)	2685(105.7)	(N/A)
	Screw	2348(92.4)	2348(92.4)	2348(92.4)	2342(92.2)	(N/A)
F (Height of chip outlet)**	Hinged belt	800(31.5)	800(31.5)	800(31.5)	770(30.3)	770(30.3)
	Screw	613(24.1)	613(24.1)	613(24.1)	628(24.7)	628(24.7)

*Specification with rear type coolant tank

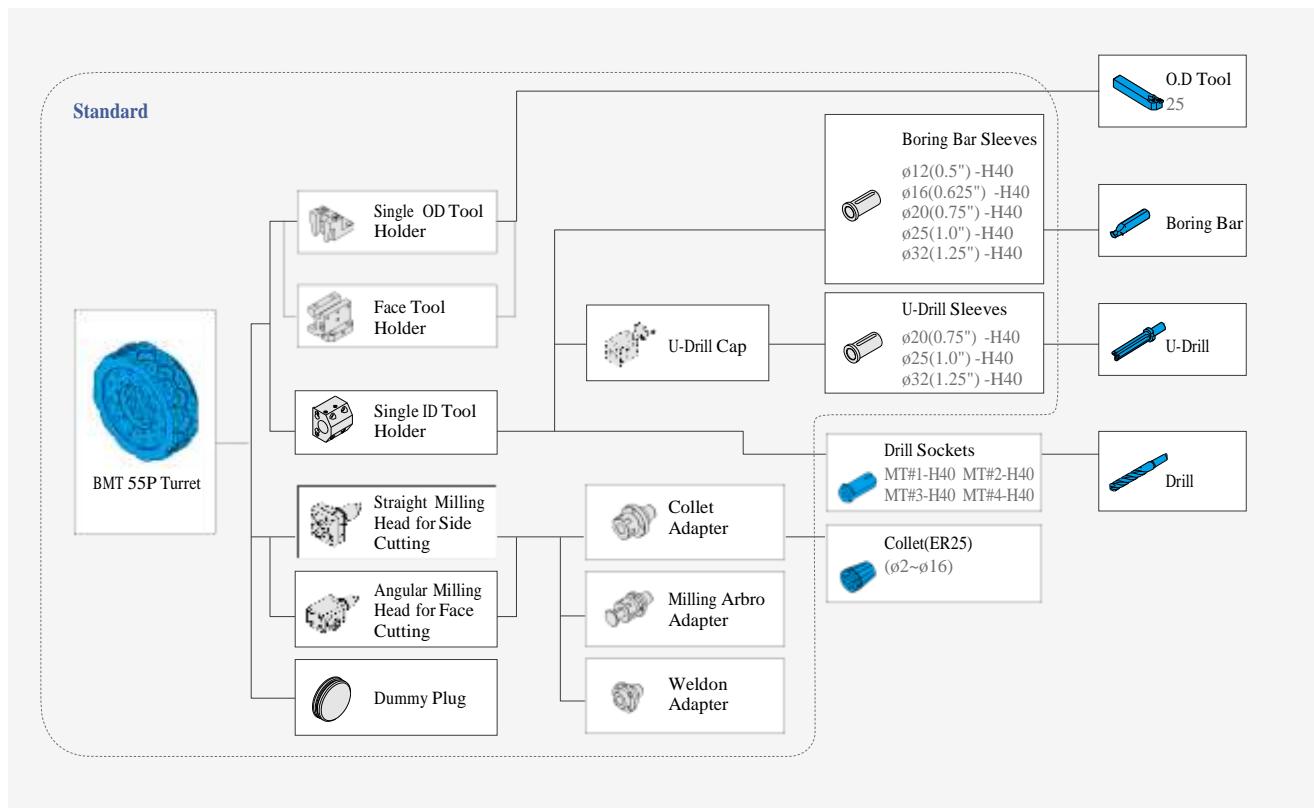
**Specification with side type chip conveyor

Tooling system**PUMA GT series(2axis, 10/12station)**

Unit: mm (inch)

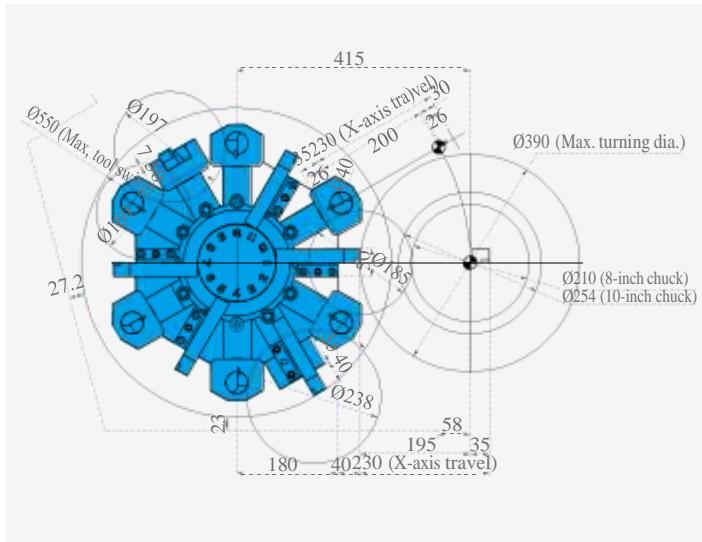
**PUMA GT series (M, 12station, BMT55P)**

Unit: mm (inch)

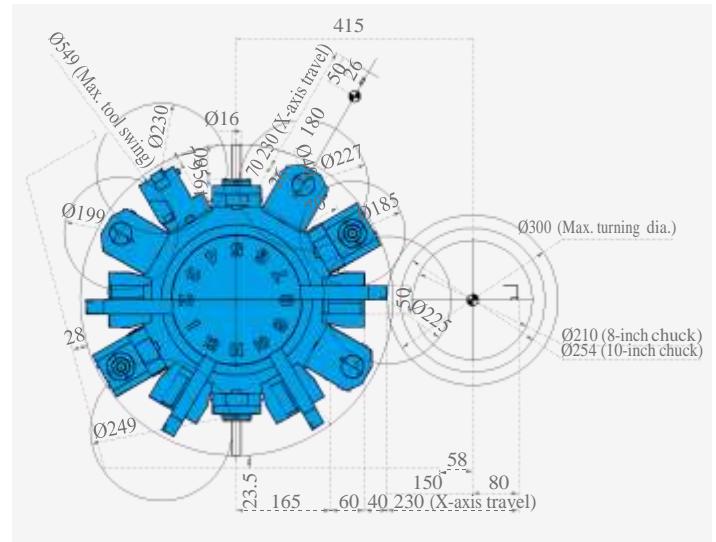


Tool Interference Diagram

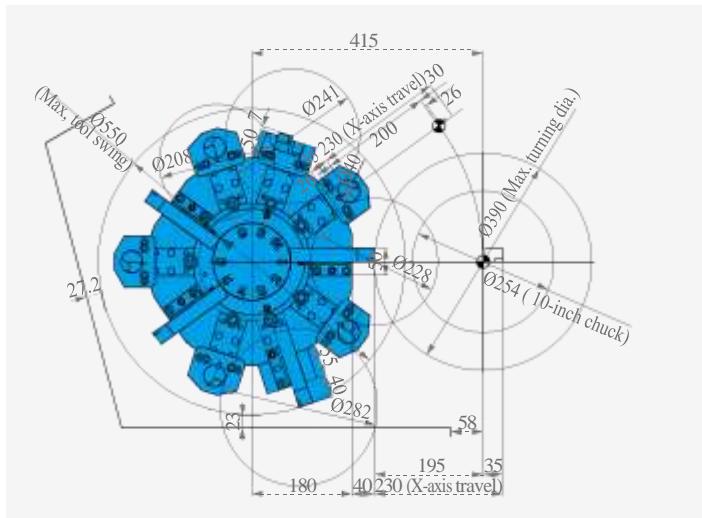
PUMA GT2100 (2axis, 12station)



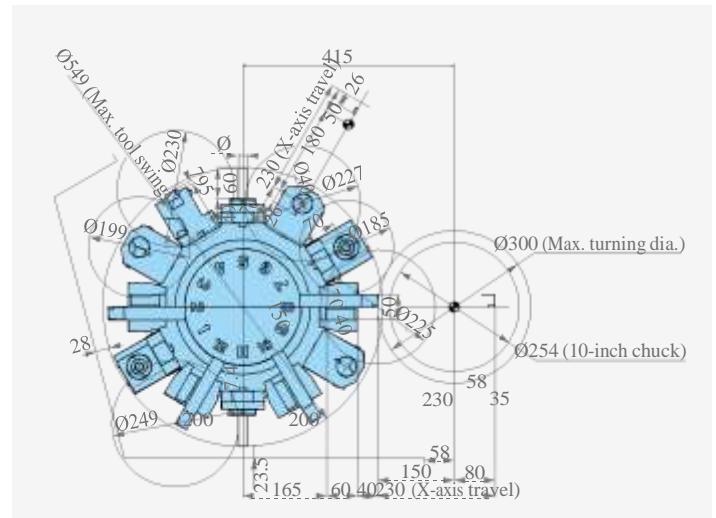
PUMA GT2100M (M, 12station, BMT55P)



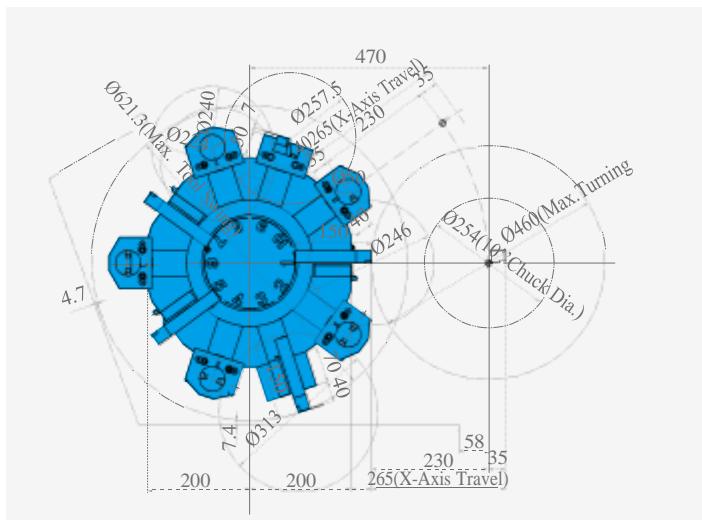
PUMA GT2100B (2axis, 10station)



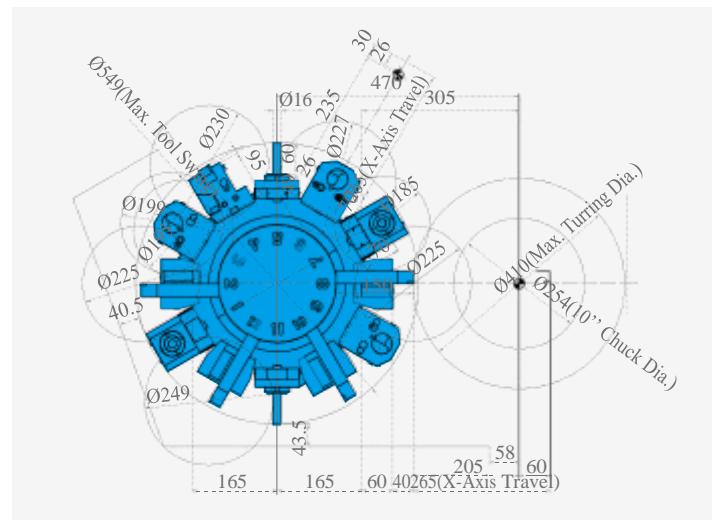
PUMA GT2100MB (M, 12station, BMT55P)



PUMA GT2600 (2axis, 10station)



PUMA GT2600M (M, 12station, BMT55P)



Basic information

Basic Structure
Cutting
Performance

Machine Information

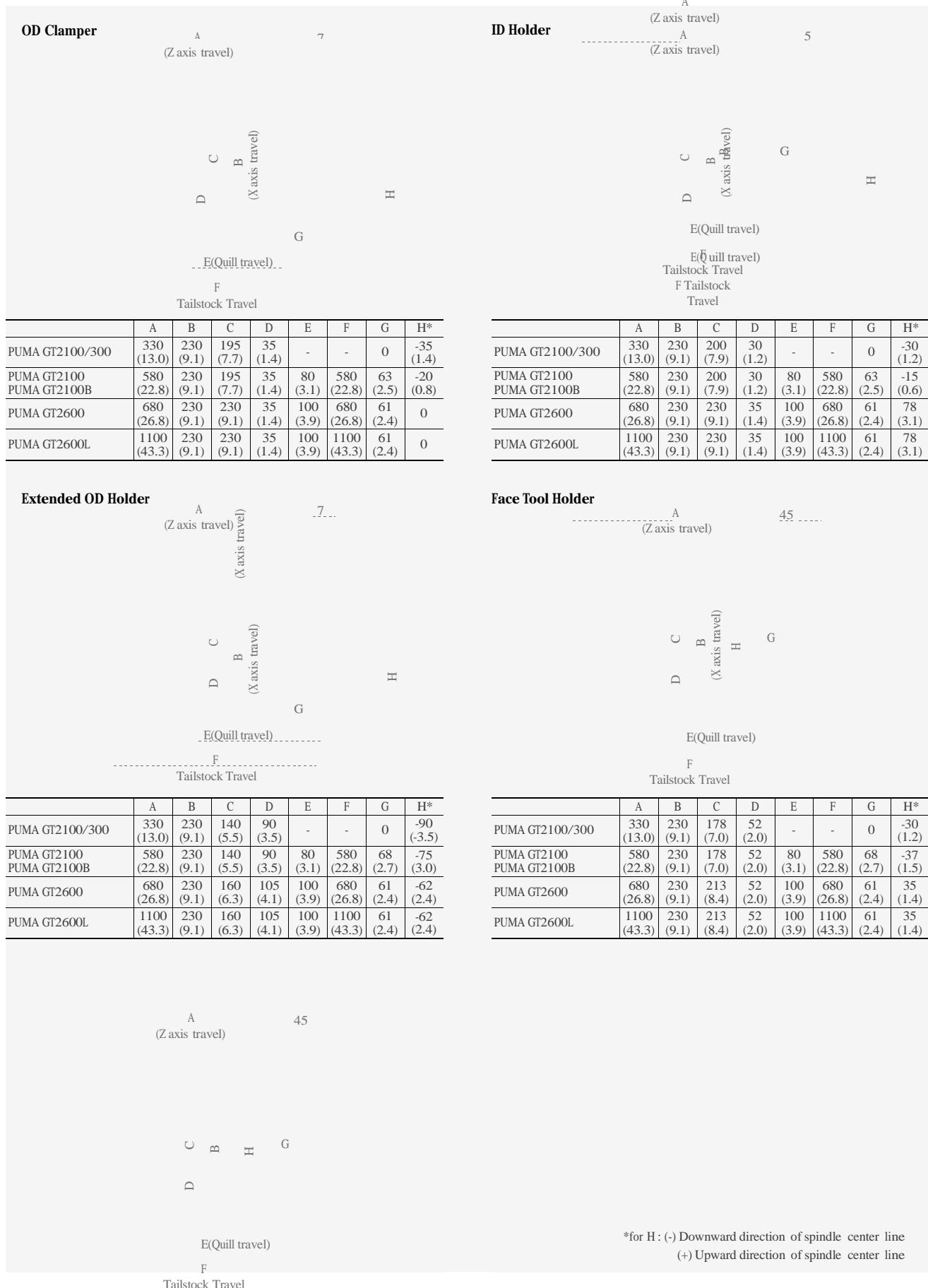
Standard/Optional Specifications
Applications
Diagrams
Machine & NC Unit
Specifications

Customer Support

Working Range Diagram

PUMA GT series(2axis)

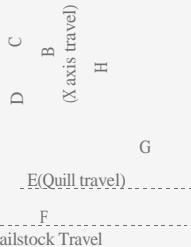
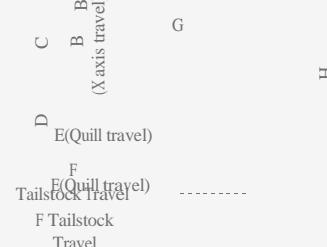
Unit: mm (inch)



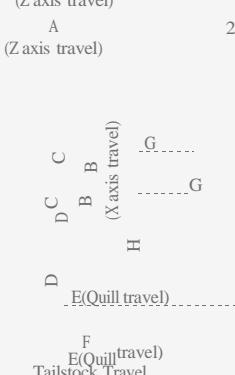
*for H: (-) Downward direction of spindle center line
(+) Upward direction of spindle center line

PUMA GT series(M, BMT55P)

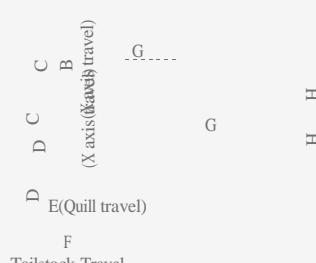
Unit: mm (inch)

OD HolderA 38
(Z axis travel)**ID Holder**A 26
(Z axis travel)

	A	B	C	D	E	F	G	H*
PUMA GT2100M/300	330 (13.0)	230 (9.1)	150 (5.9)	80 (3.1)	-	-	0 (3.1)	-80 (-3.1)
PUMA GT2100 M PUMA GT2100MB	580 (22.8)	230 (9.1)	150 (5.9)	80 (3.1)	80 (22.8)	580 (3.0)	77 (2.4)	-60 (-2.4)
PUMA GT2600M	680 (26.8)	265 (10.4)	205 (8.1)	60 (2.4)	100 (3.9)	680 (26.8)	53 (2.1)	-25 (1.0)
PUMA GT2600LM	1100 (43.3)	265 (10.4)	205 (8.1)	60 (2.4)	100 (3.9)	1100 (43.3)	53 (2.1)	-25 (1.0)

Face Tool HolderA 45
(Z axis travel)

	A	B	C	D	E	F	G	H*
PUMA GT2100M/300	330 (13.0)	230 (9.1)	148 (5.8)	82 (3.2)	-	-	77 (3.0)	-65 (-2.6)
PUMA GT2100 M PUMA GT2100MB	580 (22.8)	230 (9.1)	148 (5.8)	82 (3.2)	80 (3.1)	580 (22.8)	77 (3.0)	-65 (-2.6)
PUMA GT2600M	680 (26.8)	265 (10.4)	203 (8.0)	62 (2.4)	100 (3.9)	680 (26.8)	61 (2.4)	33 (1.3)
PUMA GT2600LM	1100 (43.3)	265 (10.4)	203 (8.0)	62 (2.4)	100 (3.9)	1100 (43.3)	61 (2.4)	33 (1.3)

Angular Milling HolderA 26.5
(Z axis travel)**Straight Milling Holder**

A (Z axis travel)



	A	B	C	D	E	F	G	H*
PUMA GT2100M/300	330 (13.0)	230 (9.1)	201 (7.9)	29 (1.1)	-	-	77 (3.0)	-9 (-0.4)
PUMA GT2100 M PUMA GT2100MB	580 (22.8)	230 (9.1)	201 (7.9)	29 (1.1)	80 (3.1)	580 (22.8)	77 (3.0)	-9 (-0.4)
PUMA GT2600M	680 (26.8)	265 (10.4)	256 (10.1)	9 (0.4)	100 (3.9)	680 (26.8)	46 (1.8)	26 (1.0)
PUMA GT2600LM	1100 (43.3)	265 (10.4)	256 (10.1)	9 (0.4)	100 (3.9)	1100 (43.3)	46 (1.8)	26 (1.0)

	A	B	C	D	E	F	G	H*
PUMA GT2100M/300	330 (13.0)	230 (9.1)	180 (7.1)	50 (2.0)	-	-	77 (3.0)	-33 (-1.3)
PUMA GT2100 M PUMA GT2100MB	580 (22.8)	230 (9.1)	180 (7.1)	50 (2.0)	80 (3.1)	580 (22.8)	77 (3.0)	-33 (-1.3)
PUMA GT2600M	680 (26.8)	265 (10.4)	235 (9.3)	30 (1.2)	100 (3.9)	680 (26.8)	61 (2.4)	75 (3.0)
PUMA GT2600LM	1100 (43.3)	265 (10.4)	235 (9.3)	30 (1.2)	100 (3.9)	1100 (43.3)	61 (2.4)	75 (3.0)

*for H : (-) Downward direction of spindle center line
(+) Upward direction of spindle center line

Machine Specifications

Basic information		Description	mm (inch)	PUMA GT2100[/300]	PUMA GT2100M [M/300]	PUMA GT2100B	PUMA GT2100MB	PUMA GT2600[L]	PUMA GT2600M[LM]		
Basic Structure	Swing over bed	mm (inch)	600 (23.6)				630 (24.8)				
Cutting	Swing over saddle	mm (inch)	390 (15.4)				460 (18.1)				
Performance	Recommended turning dia.	mm (inch)	210 (8.3)		255 (10.0)		255 (10.0)				
Machine Information	Max. turning dia.	mm (inch)	390 (15.4)	300 (11.8)	390 (15.4)	390 (15.4)	460 (18.1)	410 (16.1)			
	Max turning length	inch	562 [312] (22.1 [12.3])	513 [263] (20.2 [10.4])	550 (12.7)	501 (19.7)	658 [1078] (25.9 [42.4])	610 [1030] (24.0 [40.6])			
	Chuck size	mm (inch)	8 (10)		10		10 (12)				
	Bar working dia.	mm (inch)	65 (2.6)		81 (3.2)		81 (3.2)				
	X-axis	mm (inch)	230 (9.1)				265 (10.4)				
	Travel distance	Z-axis	mm (inch)	580 [330] (22.8 [13.0])		580 (22.8)		680 [1100] (26.8 [43.3])			
	Rapid Traverse Rate	X-axis	m/min (ipm)	24 (945)		24 (945)		24 (945)			
Customer Support	Z-axis	m/min (ipm)	30 (1181)		30 (1181)		30 (1181)				
	Max. Spindle speed	r/min	4500		3500		3500				
	Main spindle motor power	kW (hp)	18.5 / 15 (25 / 20) (15min/cont.)				22 / 18.5 (30 / 25) (30min/cont.)				
	Max. Spindle torque	N·m (lbf ft)	313 (231)		401.2 (296)		622 (459)				
	Spindle nose	ASA	A2-6		A2-8		A2-8				
	Spindle bearing diameter (Front)	mm (inch)	110 (4.3)		140 (5.5)		140 (5.5)				
	Spindle through hole	mm (inch)	76 (3.0)		91 (3.6)		91 (3.6)				
	Min. spindle Indexing angle (C-axis)	deg	-	0.001	-	0.001	-	0.001			
	No. of tool stations	ea	12	12	10 {12}	12	10 {12}	12			
Turret	OD tool size	mm (inch)	25 x 25 (1 x 1)				25 x 25 (1 x 1)				
	Max. boring bar size	mm (inch)	40 (1.6)				50 (2.0)	40 (1.6)			
	Turret Indexing time (1 station swivel)	s	0.15				0.15				
	Max. Rotary tool speed	r/min	-	5000	-	5000	-	5000			
	Rotary tool motor power	kW (hp)	-	5.5 (7.4)	-	5.5 (7.4)	-	5.5 (7.4)			
	Tailstock travel	mm (inch)	580 [-] (22.8 [-])		580 (22.8)		680 [1100] (26.8 [43.3])				
Tailstock	Quill diameter	mm (inch)	80 [-] (3.1 [-])		80 (3.1)		100 (3.9)				
	Quill travel	mm (inch)	80 [-] (3.1 [-])		80 (3.1)		100 (3.9)				
	Quill bore taper	MT	MT#4 [#3(Dead)] [-]		MT#4 [#3(Dead)]		MT#5 [#4(Dead)]				
	Power source	Electric power supply(rated capacity)	kVA	29.04	30.43	29.04	30.43	38.41			
Machine Dimensions	Length	mm (inch)	2940 [2285*] (115.7 [90.0*])		2985 (117.5)		3290 [3735] (129.5 [147.0])				
	Width	mm (inch)	1628 [2448*] (64.1 [96.4*])		1628 (64.1)		1630 (64.2)				
	Height	mm (inch)	1700 (66.9)		1700 (66.9)		1720 (67.7)				
	Weight	kg (lbf)	3600 [3400] (7920 [7480])	3700 [3500] (8140 [7700])	3700 (8140)	3800 (8360)	4700 [5700] (10340 [12540])	4900 [5900] (10780 [12980])			
Control	NC system		DOOSAN-FANUC i								

* PUMA GT2100/300 & PUMA GT2100M/300 : with Rear type coolant tank



Apply Fanuc CNC on the Doosan machine to fulfill best performance and productivity

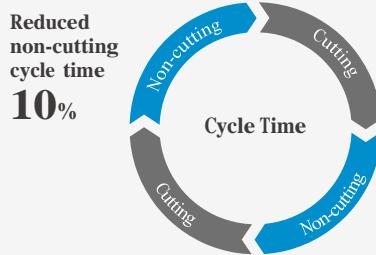
User-friendly OP Panel

The operation panel of new design enhances operating convenience by common buttons and positioning, and uses qwerty type keyboard for easy and fast operation.



Easy Operation Package

Improve Productivity



Non-cutting time during machining process is dramatically reduced to guarantee the highest productivity.

Work management



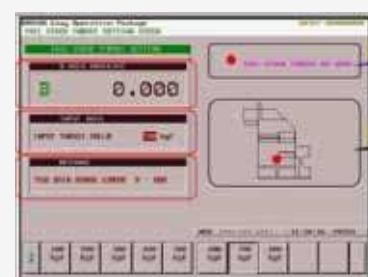
The function is capable of checking operation hours of the system, and quantity of finished workpieces.

Tool load monitoring [option]



During cutting operation, abnormal load caused by wear or damage of the tool is detected and an alarm is triggered to prevent further damage.

Tailstock thrust force setting [option]



Thrust of the tailstock is easily set in an interactive menu screen.

NC Unit Specifications

≈ Standard * Optional X N/A

DOOSAN-
FANUC i

Basic information
 Basic Structure
 Cutting
 Performance

Machine Information
 Standard/Optional Specifications
 Applications
 Diagrams
 Machine & NC Unit Specifications

Customer Support

		Item	2-Axis	M
Controlled axis	1	Controlled axes	X,Z	X,Z,C
	2	Cs contouring control	X	●
	3	Torque control	●	●
	4	HRV2 control	●	●
	5	Inch/metric conversion	●	●
	6	Stored stroke check 1	●	●
	7	Stored stroke check 2,3	●	●
	8	Stored limit check before move	●	●
	9	Chamfering on/off	●	●
	10	Unexpected disturbance torque detection function	●	●
	11	Position switch	●	●
Operation	12	DNC operation	Included in RS232C interface.	●
	13	DNC operation with memory card		●
	14	Wrong operation prevention	●	●
	15	Dry run	●	●
	16	Single block	●	●
	17	Reference position shift	●	●
	18	Handle interruption	●	●
	19	Incremental feed	x1,x10,x100	●
	20	Manual handle retrace	○	○
	21	Nano interpolation	●	●
Interpolation functions	22	Linear interpolation	●	●
	23	Circular interpolation	●	●
	24	Polar coordinate interpolation	X	●
	25	Cylindrical interpolation	X	●
	26	Helical interpolation	X	●
	27	Thread cutting, synchronous cutting	●	●
	28	Multi threading	●	●
	29	Thread cutting retract	●	●
	30	Continuous threading	●	●
	31	Variable lead thread cutting	●	●
	32	Polygon machining with two spindles	X	●
	33	High-speed skip	Input signal is 8 points.	●
	34	2nd reference position return	G30	●
	35	3rd/4th reference position return		●
Feed function	36	Override cancel	●	●
	37	AI contour control I	○	○
	38	AI contour control II	○	○
	39	Rapid traverse block overlap	●	●
Program input	40	Optional block skip	9 pieces	●
	41	Absolute/incremental programming	Combined use in the same block	●
	42	Diameter/Radius programming		●
	43	Automatic coordinate system setting		●
	44	Workpiece coordinate system	Part program storage size	●
	45	Workpiece coordinate system preset		●

		Item	2-Axis	M
46	Program input	Direct drawing dimension programming	●	●
47		G code system	A	●
48		G code system	B/C	●
49		Chamfering/Corner R		●
50		Custom macro		●
51		Addition of custom macro common variables	#100 - #199, #500 - #999	●
52		Interruption type custom macro		●
53		Canned cycle		●
54		Multiple repetitive cycles	G70~G76	●
55		Multiple repetitive cycles II	Pocket profile	●
56		Canned cycle for drilling		●
57		Coordinate system shift		●
58		Direct input of coordinate system shift		●
59		Pattern data input		●
60	Operation Guidance Function	EZ Guidei (Conversational Programming Solution)		●
61		EZ Operation package		●
62	Auxiliary/Spindle speed function	Constant surface speed control		●
63		Spindle override	0 - 150%	●
64		Spindle orientation		●
65		Rigid tap		●
66		Arbitrary speed threading	○	○
67	Tool function/ Tool compensation	Tool offset pairs	64-pairs	●
68			99-pairs	○
69		Tool offset		●
70		Tool radius/ Tool nose radius compensation		●
71		Tool geometry/wear compensation		●
72		Automatic tool offset		●
73		Direct input of offset value measured B		●
74		Tool life management		●
75	Accuracy compensation function			●
76		Stored pitch error compensation		●
77	Editing operation	Part program storage size & Number of registerable programs	1280M(512KB)_400 programs	●
78			5120M(2MB)_400 programs	○
79		Program protect		●
80		Password function		●
81		Fast data server	○	○
82	Data input/output	External data input	●	●
83		Memory card input/output	●	●
84		USB memory input/output	●	●
85		Automatic data backup	○	○
86	Interface function	Embedded Ethernet	●	●
87		Fast Ethernet	○	○
88	Others	Display unit	10.4" color LCD	●
89		Robot interface	with PMC I/O module	○
90			with PROFIBUS-DP	○

Basic information

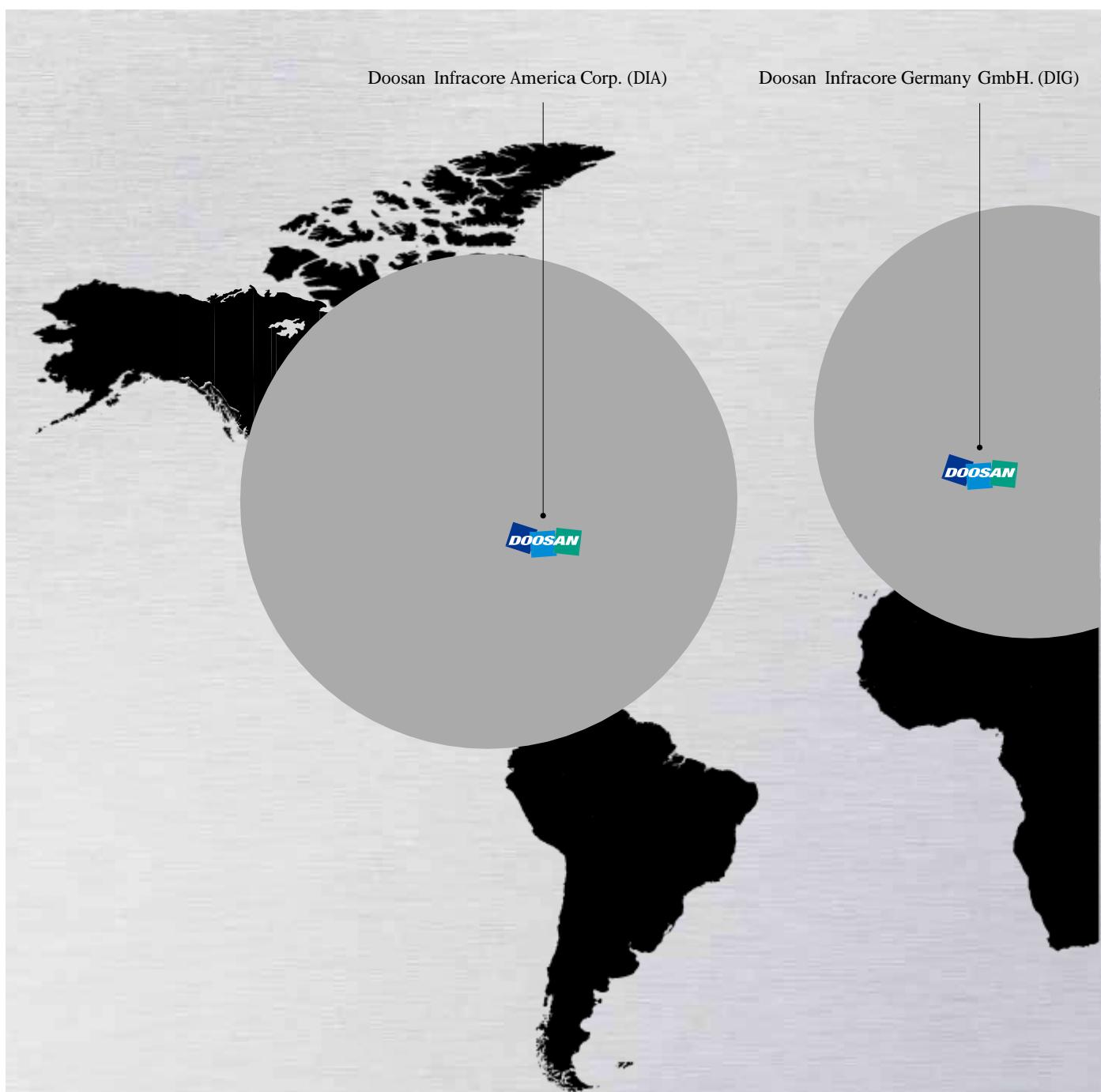
Basic Structure
Cutting
Performance

Machine Information

Standard/Optional Specifications
Applications
Diagrams
Machine & NC Unit Specifications

Customer Support

Responding to Customers Anytime, Anywhere



Global Service Support Network

Corporations

5

Dealer Networks

128

Technical Centers

21

Factories

4

Technical Center: Sales Support, Service Support, Parts Support

Doosan Machine Tools' Global Network, Responding to Customer's Needs nearby, Anytime, Anywhere

Doosan machine tools provides a system-based professional support service before and after the machine tool sale by responding quickly and efficiently to customers' demands. By supplying spare parts, product training, field service and technical support, we can provide top class support to our customers around the world.

Doosan Infracore Yantai Factory (DIY)

Doosan Infracore Construction Equipment India Pvt. Ltd. (Machine Tool Div.) (DICTD)

DIY Shanghai Office

Doosan International South East Asia Pte Ltd. (DISEA)

Doosan Infracore Seoul Office

Doosan Infracore Namsan Factory
Doosan Infracore Daewon Factory
Doosan Infracore Sungju Factory

Customer Support Service

We help customers to achieve success by providing a variety of professional services from pre-sales consultancy to post-sales support.

Supplying Parts



- Supplying a wide range of original Doosan spare parts
- Parts repair service

Field Services



- On site service
- Machine installation and testing
- Scheduled preventive maintenance
- Machine repair

Technical Support



- Supports machining methods and technology
- Responds to technical queries
- Provides technical consultancy

Training



- Programming / machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering

Domestic Service Support Network

Integrated Support Centers

2

Sales Branch Offices

7

Post-Sales Service Centers

6

Designated Repair Service Centers

31

Major Specifications

PUMA GT series



Description	Unit	PUMA GT2100	PUMA GT2600
Max. turning dia.	mm (inch)	390 (15.4)	460 (18.1)
Max. turning length	mm (inch)	562 (22.1)	658 (25.9)
Standard chuck size	inch	8	10
Bar working dia.	mm (inch)	65 (2.6)	81 (3.2)
Max. spindle speed	r/min	4500	3500
Max spindle power	kW (hp)	18.5 (25)	22 (30)
	NC system		DOOSAN-FANUC i

* Standard machine specification



Doosan Machine Tools

<http://www.doosanmachinetools.com>

Optimal Solutions for the Future

Head Office

Doosan Tower 20th FL., 275, Jangchungdan-Ro
(St), Jung-Gu, Seoul
Tel +82-2-3398-8693 / 8671 / 8680
Fax +82-2-3398-8699

Doosan Infracore America Corp.

19A Chapin Rd., Pine Brook, NJ 07058, U.S.A.
Tel +1-973-618-2500
Fax +1-973-618-2501

Doosan Infracore Germany GmbH

Emdener Strasse 24, D-41540 Dormagen,
Germany
Tel +49-2133-5067-100
Fax +49-2133-5067-001

Doosan Infracore Yantai Co., LTD

13 Building, 140 Tianlin Road, Xuhui District,
Shanghai, China (200233)
Tel +86-21-6440-3384 (808, 805)
Fax +86-21-6440-3389

Doosan Infracore Construction Equipment

India Pvt. Ltd. (Machine Tool Div.)
106 / 10-11-12, Amruthahalli, Byatarayanapura,
Bellary road, Bangalore-560 092, India
Tel +91-80-4266-0122 / 121 / 100



Doosan International South East Asia

Pte Ltd.
42 Benoi Road, Jurong 629903, Singapore
Tel +65-6499-0200
Fax +65-6861-3459

For more details, please contact Doosan.

The specifications and information above-mentioned may be changed without prior notice.